



State of Ohio Environmental Protection Agency

Southwest District

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October 9, 2008

Ms. Karen Cibulskis  
US EPA  
SR-6J  
77 West Jackson St.  
Chicago, IL 60604

RE: South Dayton Dump and Landfill, Test Trench 21 and 22 Field Observations

Hello Karen:

I am providing you a summary of my field work observations from test trenches 21 and 22. Trenching took place yesterday, October 8th. Both trenches are located in the northern portion of the Valley Asphalt recycling facility. I am also providing you a CD containing my photographs of excavation activities and waste contents. You will note that a partially deteriorated drum was encountered, in Test Trench 21, in the footprint of the former sewer line excavation. The drum contents consisted of sediment, associated with a sheen and strong odor. The sediment, analyzed by CRA with a PID meter, had a headspace concentration of 197.3 ppm, total VOCs. If you have any questions, please give me a call.

Sincerely,

Matt Justice  
Site Coordinator, Ohio EPA, Division of Emergency and Remedial Response

Enclosure

MJ/mab

US EPA RECORDS CENTER REGION 5



440044

## **South Dayton Dump Trenching Field Notes**

From: Matt Justice, Site Coordinator, DERR, SWDO

Re: Test Trench 21 and 22 field notes

Date: On site, October 8, 2008

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### **Test Trench 22**

9:00 am. On site at Valley Asphalt, with Jeroen Winterlink, Ken Vanderhual, Greg Lewis, and other CRA crew members. Trench excavated toward southeast, toward property fence line. Wind southwesterly with lite rain.

Penetrate blacktop pavement. Pilings consist of gray sandy sediment. Matrix contains asphalt, brick, and concrete cobbles with traces of wood debris. Trace newspaper, burnt and not burned; Borden milk carton with possible grease blob. At 21 feet bgs, purchase order forms recovered titled: "GM Inland Motors Plant," dated 1943.

### Sample Collection

1. 6 feet below ground surface (bgs). PID headspace of 91.4 ppm total VOCs.
2. 21 feet (bgs). PID headspace of 19.9 ppm total VOCs.

10:00 am. Completed trench, 30 feet long by 25 feet deep. Noticed strong odor, either fuel or solvent, smelled 6 feet downwind of trench. Water table not encountered. Coarse sand and gravel encountered in base of trench at 25 feet. Lateral extent of waste not delineated. Trenching further southeast impeded by overhead utilities, gas line, and property fence line. Jeroen explained that the test trench data will assist the interpretation of future geophysical survey. Began filling and closing trench.

### **Test Trench 21**

10:30 am. Northern trench: Began excavating toward southeast, toward GPR delineated footprint of former sewer excavation. Previous ground penetrating radar data suggest the former excavation was 8 feet wide. Wind southwesterly with lite rain.

- 0 feet. Penetrate blacktop pavement.
- 3 feet (bgs). Waste first encountered, consisting of brown sandy silt.
- 4 feet (bgs). Layer with abundant brick fragments.
- 8 feet (bgs). As above, but with abundant (25%) glass bottles. With wood debris. Various bottles, including numerous wide mouthed milk bottles. Recollection is that some milk bottles are engraved "Golden Medal Dairy." No plastic debris. Possibly World War II era waste, as evidenced by types of glass bottles, absence of plastic, and lack of metal debris.
- 9 feet (bgs). Encountered layer of gray, very fine, silty sediment. Moist. Strong

non-solvent odor. Some wood debris. Trace clumps of white solid material, appearance of Styrofoam but more dense. Trace newspaper, burnt and not burned. Trace dishes, metal gears and metal shavings.

- 10 feet (bgs). As above, odor increasing
- 11 feet (bgs). Excavated two large tree trunks approximately 5 feet long by half foot wide
- 22 feet (bgs). Coarse sand and gravel.

12:00 pm. Southeastern end of trench

- 6-7 feet (bgs). At a distance of 37 feet from start point, drum encountered in the footprint of the former sewer excavation. Entire drum dumped from bucket. Repugnant odor standing down wind approximately 30 feet away from drum. Drum engraved "Dupont" in deteriorated condition; not sealed. No liquids encountered. Hand-held PID meter placed on drum registered 307 ppm total VOCs. Action level of 25 ppm requires level C. Drum contains black, moist to wet medium sandy silt with sheen and greasy appearance. Trenching ceased in waste material, with total length of 37 feet. Water table not encountered.

1:30 pm. Sample drum contents and overpack drum.

#### Sample Collection

1. Northern trench, 8 feet below ground surface (bgs). PID headspace of 33.3 ppm total VOCs.
2. Northern trench, 21 feet (bgs). PID headspace of 62 ppm total VOCs.
3. Drum contents. At 1:30 pm CRA's Ken Vanderhaul samples drum contents, wearing level B personal protective equipment. At 2pm PID headspace of 197.3 ppm. Background of 1.3 ppm.















































































































